

ABSTRACT OF THE DISCLOSURE**IR AND/OR SM PROMOTED MULTI-METAL OXIDE CATALYST**

A catalyst comprising a promoted mixed metal oxide is useful for the vapor phase oxidation of an alkane or a mixture of an alkane and an alkene to an unsaturated carboxylic acid and for the vapor phase ammoxidation of an alkane or a mixture of an alkane and an alkene to an unsaturated nitrile.